INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/19641

A. CLA	SSIFICATION OF SUBJECT MATTER	1 017 05047 15047	
IPC(7) : F16K 51/00; F16L 29/00, 37/28; A61M 5/00			
US CL : 251/149, 149.1, 149.3, 149.6, 149.7; 604/246, 249, 256, 537, 538, 905; 137/854			
According to international Patent Classification (IPC) or to both national classification and IDC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S.: 251/149, 149.1, 149.3, 149.6, 149.7; 604/246, 249, 256, 537, 538, 905; 137/854			
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Documentation searched other than minimum.			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
(maile of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE DELEVANT			
TO BE RELEVANT			
	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
X	US 5,549,566 A (ELIAS et al.) 27 August 1996 (27.08.1996), See figure 1.	13-19, 22, 23, 30-32,
			35-37, 56-58, 61, 63-
			65, 76, 80, 81, 92
1			***************************************
		·	89-91
Y	US 6.168.137 R1 (PARADIS) 02 January 2001 (0	2.01.00012 8	
	US 6,168,137 B1 (PARADIS) 02 January 2001 (02.01.2001), See Figure 4.		89-91
Α	US 4,946,448 A (RICHMOND) 07 August 1990 (07.08.1990), See figure 2.		
	(07.00.1990), See figure 2.	1-111
· i			
Further documents are listed in the continuation of Box C.		See patent family annex.	
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"A" document defining the general state of the art which is not considered to be		uate and not in conflict with the applica	tion but cited to understand the
of particul	ar relevance	principle or theory underlying the inver	ulon
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		being obvious to a person skilled in the	art
"P" document published prior to the international filing date but later than the priority date claimed		*&" document member of the same patent for	umily
Date of the ac	desired the international search	Date of mailing of the international search	ch report
03 January 2005 (03.01.2005)		Date of mailing of the international search	2005
Name and ma	iling address of the ISA/US		
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Facsimile No. (703) 305-3230			
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